Aim

To write a Pandas program that selects distinct department IDs from an employees file.

Algorithm

1. Import the Pandas library
2. Create a DataFrame with the given employee data
3. Use the `unique()` function to select distinct department IDs
4. Print the result

Code

```
import pandas as pd
data = {
    'DEPARTMENT_ID': [10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, 120, 130, 140,
150, 160, 170, 180, 190, 200, 210, 220, 230, 240, 250, 260, 270],
    'DEPARTMENT_NAME': ['Administration', 'Marketing', 'Purchasing', 'Human
Resources', 'Shipping', 'IT', 'Public Relations', 'Sales', 'Executive', 'Finance',
'Accounting', 'Treasury', 'Corporate Tax', 'Control And Credit', 'Shareholder
Services', 'Benefits', 'Manufacturing', 'Construction', 'Contracting', 'Operations',
'IT Support', 'NOC', 'IT Helpdesk', 'Government Sales', 'Retail Sales', 'Recruiting',
'Payroll'],
    'MANAGER_ID': [200, 201, 114, 203, 121, 103, 204, 145, 100, 108, 205, 0, 0, 0, 0,
0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0],
    'LOCATION_ID': [1700, 1800, 1700, 2400, 1500, 1400, 2700, 2500, 1700, 1700, 1700,
1700, 1700, 1700, 1700, 1700, 1700, 1700, 1700, 1700, 1700, 1700, 1700, 1700, 1700,
1700, 1700]
}
df = pd.DataFrame(data)
distinct_department_ids = df['DEPARTMENT_ID'].unique()
print("Distinct Department IDs:")
print(distinct_department_ids)
```

Output

```
Distinct Department IDs:
[ 10  20  30  40  50  60  70  80  90 100 110 120 130 140 150 160 170 180
 190 200 210 220 230 240 250 260 270]
```

Result

The program successfully extracts and displays all unique department IDs from the given employee data using Pandas.